# KE-DP3121W

## Excellence series intelligente addresseerbare triple optische/hitte detector met isolator

### General

The innovative Excellence range of intelligent addressable devices offers advanced features for reliability and peace of mind. Coupled with features for ease of installation and maintenance on new fire detection systems, it's a perfect match for exceptional overall performance.

The DP3121W is a Kidde Excellence series, traffic white addressable dual optical and heat detector with integrated short circuit isolation. It combines a low profile design with tri-colour status indication with 360° visibility. A remote indicator output is available as standard that supports a remote indicator up to 30 m away.

Detection reliability is ensured by combining dual optical wavelengths with multiple detection angles. This allows for state-of-the-art particle size detection that differentiates between real sources of alarm, or nuisance sources such as dust and steam. As a temperature detector Class A static and rate-of-rise modes are supported to further widen the application footprint.

### User friendly

All detectors are individually identified by easily setting an address through 2, modern design rotary switches. The address is a directly identified number and does not require binary or hexadecimal conversions that significantly reduces the risk of incorrect addressing.

### Installation & maintenance friendly

Self-testing and drift compensation ensure safe operation with a contamination warnings provided when maintenance is needed.

All Excellence series detectors are compatible with a standard base which makes installation planning seamless and detectors easily interchangeable.

### Communication protocol

An enhanced protocol ensures the overall integrity and error-free operation of the system. The Excellence series protocol provides features like CRC error checking and multiple bus cycle codes to ensure reliability between panel and device communication. The Kidde Excellence protocol still support legacy 2000 series devices in combination with the Kidde Excellence series devices.

### Extended applications

A comprehensive range of additional devices and accessories complement every Excellence series device. Appart from a feature rich detector line, a comprehensive range of in- and outdoor manual call points as well as a variety of I/0 modules and accessories enrich the overall Excellence system capability.




### Details

- Geïntegreerde isolatie tegen kortsluiting in de lus zorgt ervoor dat het systeem blijft werken tijdens een enkele kortsluiting in de lus.
- Kortsluitingsisolatie op externe uitgang voor extra bescherming van apparaten
- Valse alarmen, stoom- en stofdiscriminatie voor superieure immuniteit tegen valse alarmen
- Regelmatige automatische zelftests voor operationele gemoedsrust
- Statisch en thermovelocymetrische temperatuur detectie
- Driekleurige indicatoren voor alarm, voorwaarschuwing, isolatie en storing. ItsMe en communicatie maken een einde aan het giswerk over de operationele status.
- 360° zichtbaarheid van de indicator betekent dat het apparaat niet hoeft te worden uitgelijnd om zichtbaarheid te garanderen.
- Nieuwe mechanische draaischakelaars voor éénvoudige adressering
- Event logging in het toestel voor diagnose wanneer nodig
- Alle gevoeligheden zijn EN54 gecertificeerd

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## Technische specificaties

### General

| | |
|---|---|
| Status indication | Driekleuren LED |
| Compatibility | Kidde Commercial Excellence Systemen |
| Alarm levels | 11 |
| Event log | Beschikbaar |
| Connectivity | Excellence series, standaard sokkel |
| Addressing method | Rotary switch |

### Electrical

| | |
|---|---|
| Power supply type | Loop powered |
| Operating voltage | 17 tot 29 VDC |
| Communication voltage | 4 tot 11 V pulserend |
| Current consumption | 4.75 mA (alarm bij 24 VDC)<br>200 µA (rust bij 24 VDC) |
| Terminals | 6 |

### Detection

| | |
|---|---|
| Detection principle | Optische licht reflectie, voorwaards en achterwaards/hitte |
| Monitoring | Alarm threshold, Contamination level, Fault |
| Sensitivity | Selecteerbaar |
| Coverage area | <112 m² (optisch) / < 56.3 m² (hitte) |
| Particle sensitivity range | 0.1 tot 0.25 dB/m ±20% |
| Alarm temperature (maximum) | +70°C |
| Alarm temperature (minimum) | +54°C |
| Rate-of-rise | Ondersteund |
| Installation height | <10.5 m (optisch) / < 7.5 m (hitte) |

### Output

| | |
|---|---|
| Output quantity | 1 |
| Output type and rating | Herhaalled |
| Programmable | Nee |
| Remote alarm output | <8 mA |

### Isolation

| | |
|---|---|
| Type | Negative line break |
| Quantity per loop | ≤128 |
| Isolation voltage | 14 tot 15.5 VDC |
| Reconnect voltage | 14 tot 15.5 VDC |
| Loop current | 5 mA (isolaterend) |
| Switch current | 1.05 A (continu) / 1.4 A (pulserend) |
| Leakage current | <1 mA |
| Series resistance | <0.08 Ω |
| Impedance requirements | ≤32 elementen tussen isolatoren |

### Physical

| | |
|---|---|
| Physical dimensions | 100 x 54 mm (Ø x H) |
| Net weight | 124 g |
| Colour | Traffic white (RAL9016) |
| Mounting type | Base mount |
| Material (body) | PC / ABS |
| Material (contacts) | Brass |
| Functional marking | Device type, Isolation |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -10 tot +55°C |
| Storage temperature | -30 tot +75°C |
| Application temperature (maximum) | +50°C |
| Application temperature (typical) | +25°C |
| Relative humidity | 10 tot 93% niet condenserend |
| Environment | Indoor |
| IP rating | IP20 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | CPR |
| Standards | EN54-5, EN54-7, EN54-17 |

### Compatibele producten

| Categorie | Referentie | Beschrijving |
|---|---|---|
| Detection device | KE-DB3010W | Excellence series accessoire - standaard sokkel |

KIDDE COMMERCIAL

Als een bedrijf van innovatie behoudt Kidde Global Solutions zich het recht voor productspecificaties zonder kennisgeving te wijzigen. Ga voor de nieuwste productspecificaties online naar be.firesecurityproducts.com of neem contact op met uw verkoopvertegenwoordiger.

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